Bruhat Bangalore Mahanagara Palike

BYTARAYANAPURA DIVISION

Job No: 007-16-000043 26618

Name of Agency :- Benaka Developers and projects Pvt. Ltd

Bill No :- 4th & Part Bill

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate:Improvements to Roads and Drains in Kannuramma Temple Main Road and Surrounding Area, in Ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)						
	Measurements recorded on:						
	Drain Desilt	**Cum**					
	3rd cross road Lottegollahalli						
	LHS 0-30		1	30	0.60	0.30	5.40
	30-60		1	30	0.60	0.30	5.40
	60-90		1	30	0.60	0.30	5.40
	90-102.10		1	12.1	0.60	0.30	2.18
	RHS 0-30		1	30	0.60	0.30	5.40
	30-60		1	30	0.60	0.30	5.40
	60-90		1	30	0.60	0.30	5.40
	90-102.10		1	12.1	0.60	0.30	2.18
					Total Qty Cum		**36.76**

Consultant

Assistant Engineer 26/10

Assistant Executive Engineer

Bill No :- 4th & Part Bill

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate:Improvements to Roads and Drains in Kannuramma Temple Main Road and Surrounding Area, in Ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)						
	Measurements recorded on:						
	BS Slab Cover	**Sqm**					
	3rd cross road Lottegollahalli						
	LHS 0-30 Bottom		1	30.00	0.45		13.50
	Sides		2	30.00	0.45		27.00
	RHS 0-30 Bottom		1	30.00	0.45		13.50
	Sides		2	30.00	0.45		27.00
	30-60 Bottom		1	20.00	0.45		9.00
	Sides		2	20.00	0.45		18.00
					Total Qty Sqm		**108.00**

Consultant

Assistant Engineer 29/10

Assistant Executive Engineer

Assistant Executive Engine
Kodigehalli Sub Division

Bill No :- 4th & Part Bill

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate:Improvements to Roads and Drains in Kannuramma Temple Main Road and Surrounding Area, in Ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
17	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)						
	Measurements recorded on:						
	3rd cross road Lottegollahalli						
	0-30		1	30.00	(4.2+4.6+4.7)/3	0.25	33.75
					TOTAL QTY Cum		**33.75**

BVH CONSULTING ENGINEERS Bangalore

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT LTD BANGALORE

Assistant Engineer 2/11

Assistant Executive Engineer.
Yelahanka Zone, B.B.M.P.,
Bangalore

Bill No :- 4th & Part Bill

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate:Improvements to Roads and Drains in Kannuramma Temple Main Road and Surrounding Area, in Ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
20	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)						
	Measurements recorded on:						
	3rd cross road Lottegollahalli						
	0-30		1	30.00	(4.2+4.6+4.7)/3	0.25	33.75
					TOTAL QTY Cum		**33.75**

BVH CONSULTING ENGINEERS * Bangalore *

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT LTD * BANGALORE *

5/11

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,

Bill No :- 4th & Part Bill							
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Name of Estimate:Improvements to Roads and Drains in Kannuramma Temple Main Road and Surrounding Area, in Ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	**Description of Work**	**Unit**	**No.**	**L**	**B**	**D**	**Qty**
21	KSRRB M500-6. Providing and applying **primer coat with S.S. bitumen emulsion on prepared surface of granular base** such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg /sqm using mechanical means complete as per specifications.As per MORTH Specification No. 502 with all lead and lift loading and unloading and all other incidential charges etc.complete as per specification and direction of the engineer-in-charge of the work						
	Measurements recorded on:						
		Sqm					
	3rd cross road Lottegollahalli						
	0-30		1	30.00	(4.2+4.6+4.7)/3		135.00
					Total Qty Sqm		**135.00**

CONSULTING ENGINEERS Bangalore BVH

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer 7/11

Assistant Executive Engineer.
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.

Assistant Executive Engineer

Bill No :- 4th & Part Bill

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Name of Estimate:Improvements to Roads and Drains in Kannuramma Temple Main Road and Surrounding Area, in Ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
22	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)						
	Measurements recorded on:						
	3rd cross road Lottegollahalli						
	0-30		1	30.00	(4.2+4.6+4.7)/3		135.00
	30-60		1	30.00	(4.7+5+5.4)/3		151.00
	60-90		1	30.00	(5.4+4.7+5.2)/3		153.00
	90-102.10		1	12.10	(5.2+4.6)/2		59.29
							498.29
	Deduct prime coat						**135.00**
					Total Qty Sqm		**363.29**

BVH CONSULTING ENGINEERS Bangalore

Consultant

BHANKA DEVELOPERS AND PROJECTS PVT LTD BANGALORE

Assistant Engineer 12/11

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

Assistant Executive Engineer

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Name of Estimate:Improvements to Roads and Drains in Kannuramma Temple Main Road and Surrounding Area, in Ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
23	KSRRB 500-7. Providing and applying **tack coat using 80/100 grade bitumen**(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH Chapter 5 with all lead and lift loading and unloading and all other incidential charges etc.complete as per specification and direction of the engineer-in-charge of the work						
	Measurement recorded on:						
	3rd cross road Lottegollahalli						
	0-30		1	30.00	(4.2+4.6+4.7)/3		135.00
	30-60		1	30.00	(4.7+5+5.4)/3		151.00
	60-90		1	30.00	(5.4+4.7+5.2)/3		153.00
	90-102.10		1	12.10	(5.2+4.6)/2		59.29
					Total Qty Sqm		**498.29**

BVH CONSULTING ENGINEERS Bangalore

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Consultant

Assistant Engineer 12/11

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP

Bill No :- 4th & Part Bill

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BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
25	KSRRB M500-19. Providing and laying **bituminous concrete** 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)						
	Measurement recorded on:						
	3rd cross road Lottegollahalli						
	0-30		1	30.00	(4.2+4.6+4.7)/3	0.04	5.40
	30-60		1	30.00	(4.7+5+5.4)/3	0.04	6.04
	60-90		1	30.00	(5.4+4.7+5.2)/3	0.04	6.12
	90-102.10		1	12.10	(5.2+4.6)/2	0.04	2.37
					Total Qty Cum		**19.93**

CR FC 9/11/23

Consultant

Assistant Engineer 12/11

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.

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BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
30	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)						
	Measurement recorded on:						
	Center Line						
	3rd cross road Lottegollahalli						
	0-102.10		0.5	102.10	0.10		5.11
					Total Qty Sqm		**5.11**

BVH CONSULTING ENGINEERS Bangalore

BHAKA DEVELOPERS AND PROJECTS PVT. LTD BANGALORE

Consultant

Assistant Engineer

Assistant Executive Engineer